

file 03038

14 October 1968

TP-8006

TECHNICAL PROPOSAL  
PHOTO QUALITY PROJECT -  
FT-15 AERIAL SURVEILLANCE PROGRAM

1. General Plan

The plan is for certain precise measurements to be made on samples of imagery from approximately five different types of photographic reconnaissance taken during FT-15. The image characteristics measured will be those selected by the contractor with concurrence of WEC/FO, which specifically influence image quality, and the level of information which a photographic image conveys. The goal will be to provide a valid and precise expression of the amount of information available in the imagery of each of the various types.

2. Specific Tasks

Specific tasks are as follows:

(a) Examine photography of all types as provided through WEC/FO. Select specific areas and objects representative of arms control interests which are covered by more than one of the types of photography. It is estimated that approximately fifty (50) photographic frames and some strip infrared imagery will be utilized.

(b) Design photo and photogrammetric measurement procedures (including but not limited to such factors as edge gradient, contrast, photo resolution and size measurement) to determine the quality relationships among these various photo types with particular reference arms control information requirements.

(c) After approval of "a" and "b" by the WEC/FO cognizant officer, make the appropriate measurements and computations.

The estimated cost to accomplish the above tasks (a), (b) and (c) (for funding purposes only) is approximately

(d) Prepare a brief report summarizing the procedures used and results obtained, and providing a statement of the quality of each of the materials tested, which will provide an indication of the level of arms control information which may be expected to be obtained from this type of photography. The latter will be made by consensus of 3-4 experienced imagery interpreters based upon the EEI list which will be provided by the sponsor.

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The estimated cost to accomplish the above task (d) (for funding purposes only) is approximately

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(e) Provide additional information concerning the imagery as requested. This will include making certain precise photogrammetric measurements of objects on the photographs, the providing of scale drawings or sketches of selected objects, and the making of photographic blowups and viewgraphs of sample imagery for demonstration purposes. The latter photographic processing will be accomplished at the Contractor's facility. The former (precise measurement, computations, and scaled sketches) will either be done at a government facility or at the Contractor's facility. The estimated cost to accomplish this task at the government facility (i. e. using government equipment and processing capability at no cost to  If conducted entirely at  the estimated cost is  These costs are for funding purposes only.

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3. Organization



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The above chart indicates the organization of personnel to work on this job. Bi-weekly status reports will be provided indicating work efforts, progress, problems, and prospects. It is estimated that all work will be completed in a two month period.

4. Summary

working in close association with  personnel, will provide the personnel services, equipment, and technical support to accomplish the evaluation and analysis of ACDA's Field Test-15 aerial surveillance data according to the methodology indicated in the preceding task descriptions.

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